

Pressure Sensors „MagTrans“ for OEM applications



Description

Pressure sensors „MagTrans“ are the ideal solutions for OEM applications for mid to high quantities. This is a result of good technical specifications and a very attractive price level. Due to the use of state of the art production lines we are able to provide short lead times and high quality.

The compact design with G ¼ B pressure connection enables space-saving installation.

By using components approved in large-volume production „MagTrans“ reaches a very high degree of reliability at an extreme favourable price.

As a standard the pressure sensor provides a standardized voltage output. For applications extremely critical in price a ratiometric output can be obtained.

The electrical output is realised by a round connector M12x1.

The pressure sensors “MagTrans” meet the electronic magnetic compatibility (EMC) requirements acc. to EN 61326.

Features

- accuracy 1% typ.
- compact design
- very good price-performance ratio
- components approved in large-volume production
- various voltage outputs

Pressure ranges

gauge pressure

negative	-1 ... 0 bar	to	-0.1 ... 0 bar
positive	0 ... 0.1 bar	to	0 ... 25 bar

Applications

OEM applications:
pumps and compressors,
pneumatics,
building services engineering,
refrigeration.

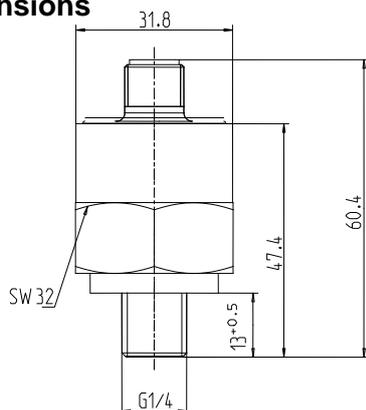
Model: P3301

Technical data

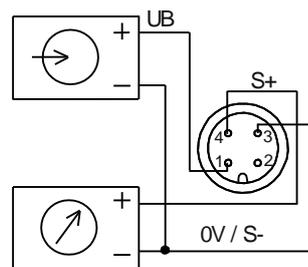
Model	P3301													
Pressure type	positive and / or negative gauge pressure													
Pressure range [bar]	0.1	0.16	0.25	0.4	0.6	1.0	1.6	2.5	4	6	10	16	25	
Overload limit [bar]	0.6	1.2	1,8	3,0	4,0	3.0	4.0	7.0	10	15	20	24	35	
Output signal	0.5 ... 4.5 VDC ratiometric 0...5 VDC 3-wire 0...10 VDC 3-wire other on request													
Power supply	5 VDC ± 10%													
- 0.5 ... 4.5 VDC	8...30 VDC													
- 0...5 VDC	12...30 VDC													
- 0...10 VDC														
Current consumption	9 mA													
Load	> 4.5 kΩ													
- 0.5 ... 4.5 VDC	> 5 kΩ													
- 0...5 VDC	> 10 kΩ													
- 0...10 VDC														
Residual ripple	max. 5% ss													
Accuracy ¹⁾	1.0% typ.													
Repeatability	0.06%													
Hysteresis	0.4% typ.													
Stability per year	0.4% (in rated conditions)													
Electr. connection	round connector M12x1 (4-pin),													
Pressure connection	G 1/4, 1/4 NPT													
Materials	Brass Plastic Brass, Ni- / Cu-alloy													
- case														
- case top														
- wetted parts														
Temp.comp. range	-20...80°C													
Temperature range	-20 ... 80°C													
- media	-20 ... 80°C													
- ambient	-20 ... 80°C													
- storage	-40 ... 100°C													
Temperature influence	0.4% / 10K typ.													
- zero point	0.4% / 10K typ.													
- span														
Protection type	IP65 to EN60529													
Response time	≤ 10 ms (within 10 % to 90 % of F.S.)													
Emission	to EN 61 326													
Interference	to EN 61 326													
Shock resistance	350g according to IEC 770 (mechanical shock)													
Vibration resistance	10g according to IEC 770 (vibration under resonance)													
Electrical protection	reverse polarity and over voltage protection													
Weight	approx. 90g													

¹⁾ Start point adjustment to DIN 16086

Dimensions



Electrical connection



E-034

Subject to technical changes